AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A cryostorage device comprising:

> at least one data storage device including at least one data storage adapted to store a plurality of data, and

at least one sample receptacle device with at least one sample chamber for the

uptake of a suspension sample, the at least one sample chamber being eenneeted directly attached to the at least one data storage device and having an elongated, hollow shape that extends from an inlet end over a predetermined length to an outlet end, the at least one sample chamber being made of an inherently flexible and bendable material, and

wherein the at least one sample chamber is being attached to the at least one data storage

device in a flexible and movably hanging manner.

2. (Previously Presented) The cryostorage device according to claim 1, wherein the at least one sample chamber is a hollow cylinder, a hollow cone, a pipe, a tube, or a hollow needle.

3. (Previously Presented) The cryostorage device according claim 1, wherein the at least one sample chamber consists of a flexible, bendable material.

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4. (Previously Presented) The cryostorage device according to claim 1, wherein the at least

one sample chamber is provided with at least one of a sensor, a temperature sensor, and

cooling surfaces.

5. (Previously Presented) The cryostorage device according to claim 1, wherein the at least

one data storage device comprises at least one data storage with a housing, the housing

being connected with the at least one sample receptacle device.

6. (Previously Presented) The cryostorage device according to claim 5, wherein the at least

one data storage device comprises a multiplicity of data storages that are attached along

the length of the at least one sample chamber.

7. (Previously Presented) The cryostorage device according to claim 1, wherein a cross-

sectional dimension of the at least one sample chamber varies along a length of the at

least one sample chamber, so that at least one sub-chamber with a cross-sectional

dimension that is larger than cross-sectional dimensions of the inlet and outlet openings is

provided.

8. (Previously Presented) The cryostorage device according to claim 1, wherein the at least

one sample receptacle device comprises a plurality of sample chambers connected with

one another at their exterior walls, so that an integral, flexible sample chamber block is

provided.

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9. (Previously Presented) The cryostorage device according to claim 1, wherein a labeling

device is provided that comprises at least one of a labeling layer on the at least one data

storage device and labeling elements placed on the at least one sample receptacle device.

10. (Previously Presented) The cryostorage device according to claim 1, wherein an

attachment device is provided, with which the at least one sample chamber is attached to

the at least one data storage device.

11. (Currently Amended) The cryostorage device according to claim 4210, wherein the

attachment device comprises strips arranged individually or as a bundle, each of the strips

having a first and a second end with a sample chamber attached to the first end and the at

least one data storage device attached to the second end.

12. (Currently Amended) A method for storing at least one suspension sample in a low-

temperature state, comprising the steps of:

uptaking the at least one suspension sample in at least one sample chamber of a

cryostorage device according to claim 1, the cryostorage device having at least one data

storage device including at least one data storage adapted to store a plurality of data, and

at least one sample receptacle device with at least one sample chamber for the uptake of

a suspension sample, the at least one sample chamber being directly attached to the at

least one data storage device and having an elongated, hollow shape that extends from an

inlet end over a predetermined length to an outlet end, the at least one sample chamber

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being made of an inherently flexible and bendable material, and the at least one sample

chamber being attached to the at least one data storage device in a flexible and movably

hanging manner; and

transferring the at least one suspension sample into a low-temperature state by

positioning at least a part of the cryostorage device in a cryo-medium,

13. (Previously Presented) The method according to claim 12, wherein the uptaking

comprises dipping the at least one sample chamber with an inlet end in a sample

reservoir and transferring of the suspension sample as a result of a reduced pressure

applied at a corresponding outlet end or of capillary forces.

14. (Previously Presented) The method according to claim 12, wherein data that comprise the

identification of the at least one suspension sample, measured data that were obtained

from the suspension sample, reference data of reference samples, and behavior data about

properties of the suspension sample during storage in the low-temperature state are stored

in the at least one data storage device.

15. (Previously Presented) The method according to claim 12, wherein at least one partial

sample is detached from the at least one sample chamber in the low-temperature state by

mechanical separation.

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16. (Previously Presented) The method according to claim 15, wherein during the mechanical

separation a local heating of the respective sample chamber in a vicinity of the at least

one partial sample that is to be separated or a separation at the attachment device occurs.

17. (Previously Presented) The method according to claim 12, wherein at least one of the

inlet and outlet ends of the at least one sample chamber is sealed by clamping, plugging,

sealing, or a part of the at least one suspension sample.

18 (New) The method according to claim 12, wherein the step of transferring the at least one

suspension sample into a low-temperature state includes arranging the cryostorage device

in an environment with a reduced temperature of less than -100 ° Celsius.